PTO/SB/21 (08-03) Approved for use through 08/30/2003. OMB 0651-0031 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. **Application Number** 10/668,909 TRANSMITTAL Filing Date September 23, 2003 **FORM** First Named Inventor Rune Mittet Art Unit (to be used for all correspondence after initial filing) **Examiner Name Attorney Docket Number** PGS-03-03US Total Number of Pages in This Submission **ENCLOSURES** (Check all that apply) After Allowance communication Fee Transmittal Form Drawing(s) to Technology Center (TC) Appeal Communication to Board Fee Attached Licensing-related Papers of Appeals and Interferences Appeal Communication to TC Petition Amendment/Reply (Appeal Notice, Brief, Reply Brief) Petition to Convert to a Proprietary Information After Final **Provisional Application** Power of Attorney, Revocation Status Letter Affidavits/declaration(s) Change of Correspondence Address Other Enclosure(s) (please **Extension of Time Request** Terminal Disclaimer Identify below): Request for Refund **Express Abandonment Request** CD, Number of CD(s) Information Disclosure Statement Remarks Certified Copy of Priority Document(s) Other: - Transmittal Letter - Cited References Response to Missing Parts/ Incomplete Application - Return Postcard Response to Missing Parts under 37 CFR 1.52 or 1.53 SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT Firm E. Eugene Thigpen Individual name Signature Date December 1, 2003 CERTIFICATE OF TRANSMISSION/MAILING I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below. Typed or printed name E. Eugene Thigpen December 1, 2003 Signature

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

In re Application of:

**Rune Mittet** 

Serial No.

10/668,909

Filed:

September 23, 2003

Title:

**METHOD FOR SEISMIC** 

MIGRATION USING EXPLICIT

**DEPTH EXTRAPOLATION** 

**OPERATORS WITH** 

DYNAMICALLY VARIABLE

**OPERATOR LENGTH** 

**Group Art Unit:** 

**Examiner: Unknown** 

Atty Docket No. PGS-03-03US

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E. Eugene Thigpen

Date: December 1, 2003

### **INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR § 1.97(b)**

Sir:

The Applicant respectfully submits herewith an Information Disclosure Statement citing copies of references (C1-C7).

This Information Disclosure Statement is being filed before the mailing date of a first Office Action on the merits.

No fees are believed to be due in connection with the filing of this Information Disclosure Statement, however, should any fees under 37 C.F.R. § 1.16 to 1.21 be deemed

necessary for any reason the Commissioner is authorized to deduct the fees from Petroleum Geo-Services, Inc.'s Deposit Account 50-2223.

Date: December 1, 2003

Respectfully submitted

E Eugen

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# Substitute for form 1449A/P

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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Atty. Docket No. PGS-03-03US	Serial No. 10/668,909
Applicants  Rune Mittet	Examiner Name Unknown
Filing Date: September 23, 2003	Group Art:

U.S.	Patent Documents	
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Foreign Patent Documents
See Page 2

Other Art See Page 2

#### **U.S. Patent Documents**

Exam. Init.	Cite No.	Document Number	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	A1				
	A2				
	A3				
	A4				
	A5				
	A6				
	A7				
	A8				
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	A17				
	A18				
	A19				
	A20				

Examiner:	Date C nsidered:

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#### Substitute for form 1449A/PTO Atty. Docket No. Serial No. 10/668,909 **PGS-03-03US Applicants INFORMATION DISCLOSURE STATEMENT Examiner Name Rune Mittet** Unknown **BY APPLICANT** Filing Date: Group Art: Page 2 of 2 September 23, 2003 U.S. Patent Documents Foreign Patent Documents Other Art See Page 1 See Page 2 See Page 2.

# Foreign Patent Documents

Exam. Init.	Ref. Des.	Document Number	Date	Country	Class	Sub Class	Translation Yes/No
	B1						
	B2						
	B3						
	B4						
	B5						

## Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

Exam. Init.	Ref. Des.	Citation
*	C1	G. BLACQUIÈRE, H.W.J. DEBEYE, C.P.A. WAPENAAR, A.J. BERKHOUT, "3-D table-driven migration", Geophysical Prospecting, 1989, pages 925-958, Vol. 37
	C2	DAVE HALE, "3-D depth migration via McClellan transformations", Geophysics, November 1991, pages 1778-1785, Vol. 56, No. 11
	C3	O. HOLBERT, "Towards optimum one-way wave propagation", Geophysical Prospecting, February 1988, pages 99-114, Vol. 36, No. 2
	C4	RUNE MITTET, "Explicit 3D depth migration with a constrained operator", SEG International Exposition and 72 <sup>nd</sup> Annual Meeting, October 2002, four pages
	C5	A. SOLLID, B. ARNSTEN, "Cost effective 3D one-pass depth migration", Geophysical Prospecting, October 1994, pages 755-776, Vol. 42, No. 7
	C6	ROBERT SOUBARAS, "Explicit 3-D Migration Using Equiripple Polynomial Expansion and Laplacian Synthesis", 62 <sup>nd</sup> Annual Meeting, Society of Exploration Geophysicists, Expanded Abstracts, October 1992, pages 905-908
	C7	ROBERT SOUBARAS, "Explicit 3-D Migration Using Equiripple Polynomial Expansion and Laplcian Synthesis", Geophysics, September-October 1996, pages 1386-1393, Vol. 61, No. 5

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